

VIII.—*The Butterflies of the Transvaal.*

By W. L. DISTANT.

THAT troublesome region now known as the Transvaal Republic affords little satisfaction to the zoologist who attempts to isolate and describe its fauna. It has no distinctive faunistic element, and in zoogeography is merely part of the present somewhat ill-defined and less understood South-African division of the Ethiopian Region. In 1875 Dr. Sclater was inclined to define the South-African division as roughly embracing the "Cape Colony and adjoining districts," and as distinct from the South-western and South-eastern divisions. But geographical discovery and colonization have since then been the means of enlarging our collections and adding to our knowledge of the zoology of this now better known and less dark continent. In 1896 Mr. W. L. Sclater, in his series of articles on "The Geography of Mammals" *, defined the "Cape Subregion" as "including all Africa south of the watershed of the Congo on the West and of the Tana on the East Coast"—a homogeneous area even then none too large, and one which that high authority Dr. P. L. Sclater remarked to the writer might well include Somaliland. If this is true when mammals are studied, it is very evident when the butterflies of Africa are examined, and can be verified by consulting the series of papers which Dr. Butler has contributed to the Zoological Society during the last few years on the Lepidoptera of British East Africa and Somaliland.

The Transvaal has almost two butterfly faunas. The desolate plains or veld, typical of the best known and most frequented areas, can in no sense be described as an entomological paradise; but the northern and eastern frontiers, such as the Zoutspanberg and Barberton districts, possess Rhopalocera rich in number and subtropical in facies. A moderate belt of bush or forest extends along the East Coast from Delagoa Bay to and beyond Natal, and this warm forest-region is more or less represented in the East and North-east Transvaal.

The first real contribution to a knowledge of the butterflies of the Transvaal was given by the Swedish lepidopterist Pastor H. D. J. Wallengren, who worked out a collection made by N. Person †, and other species have been from time

* 'Geographical Journal,' vol. vii. p. 282.

† "Insecta Transvaaliensia," *Öfversigt af kungl. Vetenskaps-Academiens Förhandlingar*, 1875, p. 83. This collection, I learn from Dr. Auri-

to time identified and described by Mr. R. Trimen; the writer also published a list of his captures made during the years 1890-91. Since then three more years (1893-96) passed in the Transvaal have added largely to his previous collections, and the following specific enumeration, to which has been added the records of other workers, may be taken as a proximate account of our present knowledge of the butterflies of this area. From Dr. P. Rendall I received a list of his species taken near Eureka, sent to and identified by Mr. H. Grose-Smith, and from Dr. A. G. Butler a list of species taken by Mr. Kirby in the "Eastern Transvaal."

I am able to enumerate 238 species as found in the Transvaal, of which 162 are contained in my own collection and 76 are recorded elsewhere. The list will doubtless be increased when the warm and unhealthy north-eastern regions of the State have been visited by a good collector.

	Own collection.	Recorded elsewhere.	Total.
Danainæ	2	3	5
Satyrinæ	12	7	19
Acraeinæ	17	4	21
Nymphaliniæ	27	10	37
Lycænidæ.....	44	20	64
Pierinæ.....	29	12	41
Papilioninæ	6	4	10
Hesperiidæ	25	16	41
	162	76	238

Nymphalidæ.

DANAINÆ.

- Limnas chrysippus*, Linn. Generally distributed.
 Var. *alcippus*, Cram. Pretoria (March).
 Var. *dorippus*, Klug. Pretoria (March).
Amauris dominicanus, Trim. Barberton (January).

Recorded elsewhere.

- Amauris echeria*, Stoll. Barberton (*Trimen*, S. A. Butt.).
 — *albimaculata*, Butl. Eastern Transvaal (*Butler*, P. Z. S. 1898).
 — *ochlea*, Boisd. " " " "

Limnas dorippus, Klug, almost universally considered a varietal form of *L. chrysippus*, is a rare butterfly in South Africa. I took one specimen near Pretoria from among a very large

villius, is not located at Stockholm, but is contained in the Museum of Malmö, in the most southern part of Sweden.

concourse of the typical form in the month of March, and this capture surprised Mr. Trimen. In the same month of another year I also took a specimen in the bush on the back-beach at Durban, when Mr. A. D. Miller, a well-known lepidopterist of that port, told me that though he had collected for sixteen years, he had never seen a specimen.

Amauris is a very scarce genus in the Transvaal, and appears to be only recorded from the Eastern districts. At Barberton, in the thick bush high up Rymer's Creek, I took a pair of *A. dominicanus*, and Mr. Trimen received *A. echeria* from the same neighbourhood.

SATYRINÆ.

- Ypthima asterope*, Klug. Barberton (January), Zoutpansberg (May).
Canyra hebe, Trim. Barberton (January).
Physcaneura panda, Bois. Pretoria (January).
Pseudonympha narycia, Wallengr. Pretoria (Nov., Dec., Jan.), Middelburg (Nov.).
 — *neita*, Wallengr. Barberton (*Dr. P. Rendall*).
 — *subacus*, Trim. Zoutpansberg (*Kæssner*), Barberton (*Dr. P. Rendall*).
 — *vigilans*, Trim. Pretoria (Nov., Dec.), Johannesburg (*Cregoe*).
 — *cassius*, Godt. Barberton (*Harrison*).
Leptoneura dingana, Trim. Zoutpansberg (*Kæssner*), Barberton (*Dr. P. Rendall*).
Samanta perspicua, Trim. Zoutpansberg (May), Barberton (January).
Melanitis leda, Linn. Pretoria (Aug. and Sept.).
Meneris tulbaghia, Linn. Barberton (*Dr. P. Rendall*).

Recorded elsewhere.

- Pseudonympha natalii*, Bois. Crocodile River (*Trimen*, S. A. Butt.).
Leptoneura Bockeri, Trim. Lydenburg District " "
Mycalesis Simonsii, Butl. Limpopo River " "
Lethe indosa, Trim. Lydenburg District " "
Pseudonympha patula, Trim. Lydenburg District (*Trimen*, Tr. Ent. Soc. 1891).
Melanitis diversa, Butl. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).
Mycalesis safitza, Hew. Eastern Transvaal (*Butler*, P. Z. S. 1898).

Wallengren ("Insecta Transvaaliensia") enumerated *Pseudonympha hippia*, Cram., but Mr. Trimen has referred this identification to his *P. sabacus*.

The more or less bare open veld country is not the rendezvous for Satyrinæ. Of the twelve species I brought back with me it will be seen that only four were obtained in the Pretoria district. Of these I procured three on my first visit, and another three years' collecting only produced one other species. One of these—*Melanitis leda*—I also found very rare.

ACRÆINÆ.

- Acræa horta*, Linn. Pretoria (Aug., Nov., Dec., Feb.), Zoutpansberg (*Kæssner*).
 — *neobule*, Doubl. & Hew. Pretoria (April, Sept., Oct.), Pienaars River (March), Zoutpansberg (May).
 — *violarum*, Boisd. Zoutpansberg (May), Barberton (*Dr. P. Rendall*).
 — *nohara*, Boisd. Barberton (*Dr. P. Rendall*).
 — *Doubledayi*, Guér. Crocodile Poort (Jan.), Zoutpansberg (May).
 — *caldarenu*, Hew. Zoutpansberg (May).
 — *natalica*, Boisd. Crocodile Poort (Jan.), Zoutpansberg (*Kæssner*).
 — *anemosa*, Hew. Pretoria (Jan., Sept.), Pienaars River (March), Middelburg (Jan.), Zoutpansberg (*Kæssner*).
 — *acara*, Hew. Pretoria (Jan.), Barberton (Jan.).
 — *encedon*, Linn. Zoutpansberg (May).
 — *rahira*, Boisd. Pretoria (Feb., March), Warm Baths, Waterberg (Dec.), Middelburg (Jan.), Zoutpansberg (*Kæssner*).
 — *anacreon*, Trim. Barberton (*Dr. P. Rendall*), Lydenburg District (*Zutrzeuka*).
 — *Buxtoni*, Butl. Pretoria (March), Barberton (Jan.), Zoutpansberg (May).
 — *cabira*, Hopff. Barberton (Jan.).
Planema esebria, Hew. Barberton (Jan.).
 — *aganice*, Hew. Barberton (*Harrison*).
Pardopsis punctatissima, Boisd. Barberton (Jan.).

Recorded elsewhere.

- Acræa aglaonice*, Westw. Lydenburg, Marico, Upper Limpopo River (*Trimen*, S. A. Butt.).
 — *stenobca*, Wallengr. Potchefstroom, Upper Limpopo River (*Trimen*, S. A. Butt.).
 — *Barberi*, Trim. Pretoria District (*Trimen*, S. A. Butt.).
 — *acrita*, Hew. Eastern Transvaal (*Butler*, P. Z. S. 1898).

Wallengren ("Insecta Transvaaliensia") also enumerates *A. hypatia*, Dru., and *A. lycia*, Fabr., but the first probably = *A. natalica*, Boisd., and the second is treated by *Trimen* as a variety of *A. encedon*, Linn.

Both the typical (rufous) form of *A. encedon*, Linn., and the pale form of the species (*A. lycia*, Fabr.) I took in Zoutpansberg in May and at Delagoa Bay in September.

NYMPHALINÆ.

- Atella columbina*, Cram. Pretoria (Feb., March), Zoutpansberg (*Kæssner*).
Pyrameis cardui, Linn. Pretoria (throughout the year).
Eurema schanceia, Trim. Barberton (Jan.).
Junonia cybrene, Trim. Pretoria (May, Aug., Dec., generally throughout the year), Johannesburg (*Cregoe*), Barberton (Jan.).
 — *clelia*, Cram. Pienaars River (March), Zoutpansberg (May).
 — *boöpis*, Trim. Pretoria (Jan., Feb., May), Barberton (*J. R. Harrison*).

- Precis cloantha*, Cram. Pretoria (Jan., March, Sept., Dec.), Johannesburg (*Cregoe*), Zoutpansberg (*Kæssner*).
 — *ceryne*, Boisd. Middelburg (Jan.), Barberton (*Dr. P. Rendall*), Zoutpansberg (*Kæssner*).
 — *tukuoa*, Wallengr. Pretoria (April), Zoutpansberg (May), Barberton (*J. R. Harrison*).
 — *octavia*, Cram., var. Pretoria, Johannesburg (*Cregoe*).
 — *sesamus*, Trim. Pretoria (Feb., April, May), Johannesburg (*Cregoe*).
 — *archesia*, Cram. Pretoria (Feb., March).
 — *pelasgis*, Godt. Pretoria (Jan., Feb.), Barberton (*Dr. P. Rendall*), Zoutpansberg (*Kæssner*).
Protogoniomorpha anacardiæ, Linn. Barberton (*Dr. P. Rendall*).
Eurytela hiarbas, Dru. Barberton (Jan.).
 — *dryope*, Cram. Barberton (*J. R. Harrison*).
Hypanis ithyia, Dru. Pretoria (Jan., Feb.), Pienaars River (March), Zoutpansberg (May).
Neptis agatha, Cram. Zoutpansberg (May), Barberton (*Dr. P. Rendall* and *J. R. Harrison*).
Hypolimnas misippus, Linn. Pretoria (Jan., Feb., April).
 Var. *inaria*, Cram. Pretoria (Jan., Feb., March, April).
Hamamidu dedalus, Fabr. Pretoria (Aug. to June), Zoutpansberg (May), Barberton (*J. R. Harrison*).
Harma alcimeda, Godt. Barberton (*J. R. Harrison*).
Charaxes varanes, Cram. Barberton (*J. R. Harrison*).
 — *Druceanus*, Butl.
 — *saturnus*, Butl. Pretoria (Dec., Feb.), Rustenburg (Dec.).
 — *brutus*, Cram. Barberton (*J. R. Harrison*).
 — *ethalion*, Boisd. " "
 — *xiphares*, Cram. " "

Recorded elsewhere.

- Atella phalantha*, Dru. Potchefstroom, Marico River (*Trimen*, S. A. Butt.).
Precis tugela, Trim. Lydenburg District (*Trimen*, S. A. Butt.).
Crenis natalensis, Boisd. " "
Charaxes candiöpe, Godt. Limpopo River "
 — *castor*, Cram. Barberton "
 — *phæus*, Hewits. " "
 — *jahlusa*, Trim. (*Wallengren*, Insect. Transvaaliensia.)
Precis elyiva. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).
Charaxes achæmenes, Feld. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).
Crenis Boisduvali, Wallengr. Eastern Transvaal (*Butler*, P. Z. S. 1898).

I found *Precis octavia* var. exceedingly scarce in the Transvaal, having only secured one specimen at Pretoria. I have since received another example from Johannesburg. *P. sesamus*, on the contrary, was very abundant, and always during the wet or summer season, frequenting my small flower-garden. Hence I have found no evidence for the proposition made by Mr. Guy A. K. Marshall (Trans. Ent. Soc. 1896, p. 557) that the two species are identical, or, rather, that *P. octavia* is the wet-season and *P. sesamus* the dry-season form.

Mr. Trimen has recorded that he "once noticed a *chryssippus* for a long time pursue a ♀ *misippus*," and that he had little doubt "that the former mistook the latter for a female of its own species." I have frequently witnessed the operation reversed. During the month of April 1895 these species were particularly abundant in my garden, but the ♀ *H. misippus* were very scarce, and I frequently watched the males of that species chasing the female Danaids till they found their mistake. When the *Hypolimnas* ♂ found his true ♀, the two sexes generally soared high and disappeared.

Lycænidæ.

- Zeritis aranda*, Wallengr. Pretoria (Sept.), Johannesburg (*Cregoe*).
 — *abmeida*, Feld. Barberton (*Dr. P. Rendall*).
 — *molomo*, Trim. Johannesburg (*Cregoe*).
 — *thyra*, Linn. Pretoria (Nov., Jan.).
 — *orthrus*, Trim. Pretoria (Sept., Jan.), Johannesburg (*Cregoe*), Barberton (*Dr. P. Rendall*), Zoutpansberg (*Kæssner*).
Chrysophanus orus, Cram. Pretoria (Oct.).
Arrugia basuta, Wallengr. Middelburg (Nov.).
Crudaria leroma, Wallengr. Pretoria (Oct.).
Catochrysops patricia, Trim. Pretoria (Oct., Nov.).
 — *glauca*, Trim. Pretoria (Oct., Dec.).
 — *osiris*, Hopff. Warm Baths, Waterberg (Dec.), Zoutpansberg (May), Barberton (May).
 — *parsimon*, Fabr. Pretoria (Dec.).
 — *asopus*, Hopff. Pretoria (Dec.).
 — *cissus*, Godt. Johannesburg (*Cregoe*), Barberton (*Dr. P. Rendall*), Zoutpansberg (*Kæssner*).
Polyommatus barticus, Linn. Pretoria (Nov., Dec.), Johannesburg (*Cregoe*), Barberton (*Harrison*).
Zizera lysimon, Hübn. Pretoria (Oct., April).
 — *gaika*, Trim. Pretoria (Dec.), Barberton (*Dr. P. Rendall*).
 — *lucida*, Trim. Barberton (*Dr. P. Rendall*).
Everes mahullokoæna, Wallengr. Pretoria (Jan., Feb., Dec.), Warm Baths, Waterberg (Dec.), Barberton (*Harrison*).
Nacaduba sichela, Wallengr. Barberton (*Dr. P. Rendall*).
 — *dolorosa*, Trim. Barberton (*Dr. P. Rendall*).
Azanus jesous, Guér. Pretoria (Jan., April, Oct., Dec.).
 — *moriqua*, Wallengr. Pretoria, Barberton (Jan.).
 — (?) *macalenga*, Trim. Warm Baths, Waterberg (Dec.), Zoutpansberg (May).
Tarucus sybaris, Hopff. Pretoria (Oct., Nov.).
 — *telicanus*, Lang. Pretoria (Oct., Dec., March), Barberton (Jan.), Zoutpansberg (May).
Castalius melæna, Trim. Pretoria (Jan.), Zoutpansberg (May).
 — *calice*, Hopff. Barberton (*Harrison*).
 — *hintza*, Trim. Pretoria (Jan.).
Hlyreus linyceus, Cram. Pretoria (Jan.), Barberton (Jan.).
 — *palemon*, Cram. Pretoria (Oct., May, Dec.), Barberton (*Dr. P. Rendall*).
Lycænesthes liodes, Hew. Pretoria (Feb.).
 — *amarah*, Guér. Pretoria (Jan., March, Dec.), Barberton (*Dr. P. Rendall*).

- Uranothauma nubifer*, Trim. Pretoria (Jan.).
Hypolycaena lara, Linn. Pretoria (March, May, Oct.), Johannesburg
 (Cregoe), Zoutpansberg (Kæssner).
Chrysorychia harpax, Fabr. Pretoria (Jan., Aug., Nov., Dec.), Zoutpans-
 berg (Kæssner).
 — *amanga*, Westw. Pretoria (Jan., March).
Deudorix licinia, Mab. Pretoria (April, May).
Spindasis natalensis, D. & H. Pretoria (Dec., Jan.).
 — *masilikazi*, Wallengr. Pretoria (Jan., Aug., Dec.).
Tatura philippus, Fabr. Pretoria (April).
Iolais Trimeni, Wallengr. Pretoria (Dec.).
Stugeta Bowkeri, Trim. Pretoria (Jan., Feb.), Warm Baths, Waterberg
 (Dec.).
Myrina ficedula. Pretoria (Dec., Jan.), Zoutpansberg (Kæssner).

Recorded elsewhere.

- Lycæna hypopolia*, Trim. Potchefstroom (*Trimen*, S. A. Butt.).
 — *jobates*, Hopff. " "
 — *niobe*, Trim. " "
 — *ignota*, Trim. " "
 — *trochilus*, Freyer. " "
 — *notobia*, Trim. " "
Deudorix antalus, Hopff. Potchefstroom, Limpopo River (*Trimen*, S. A.
 Butt.).
 — *dinomenes*, H. Grose-Smith. Marico River (*Trimen*, S. A. Butt.).
Capys alphæus, Cram. Potchefstroom, Lydenburg District (*Trimen*,
 S. A. Butt.).
Iolais mimosæ, Trim. Limpopo River (*Trimen*, S. A. Butt.).
Aphnæus ella, Hewits. Potchefstroom, Marico and Limpopo Rivers (*Tri-*
men, S. A. Butt.).
 — *phanes*, Trim. Eureka (*Trimen*, S. A. Butt.).
 — *Hutchinsonii*, Trim. Eureka (*Trimen*, S. A. Butt.).
Zeritis athon. Lydenburg District " "
 — *malagrida*, Wallengr. No precise locality (*Trimen*, S. A. Butt.).
 — *taikosama*, Wallengr. " "
D'Urbania anakosa, Trim. Lydenburg District " "
Arrugia protumnus. Kalkfontein (*Trimen*, S. A. Butt.). "
Capys disjunctus, Trim. Barberton (*Trimen*, Tr. Ent. Soc. 1895).
Cupido asteris, Godt. (*Wallengren*, Insecta Transvaaliensia.)

Papilionidæ.

PIERINÆ.

- Mylothris agathina*, Cram. Pretoria (Feb., May), Zoutpansberg (May).
 — *Rüppellii*, Koch. Zoutpansberg (Kæssner).
Colias electra, Linn. Pretoria (throughout the year), Barberton (*Dr. P.*
Rendall), Zoutpansberg (Kæssner).
Terias brigitta, Cram. Pretoria (Aug., Sept., Oct.), Zoutpansberg (May).
 — *zoë*, Hopff. Pretoria (Jan., Feb., March, Oct.), Pienaars River
 (March), Zoutpansberg (May), Rustenburg (Dec.).
 — *regularis*, Butl. Barberton (Jan.).
Teracolus subfasciatus, Swains. Pienaars River (March), Zoutpansberg
 (May).
 — *eris*, Klug. Pretoria (Feb.), Pienaars River (March).

- Teracolus agoje*, Wallengr. Pienaars River (March).
 — *ione*, Godt. (?). Lydenburg District (*Zutrzenka*).
 — *regina*, Trim. " " "
 — *annæ*, Wallengr. " " "
 — *uivo*, Leech. Pienaars River " "
 — *evenina*, Wallengr. Pretoria (Feb., Dec.), Pienaars River (March).
 — *achine*, Cram. Pienaars River (March), Crocodile Poort (Jan.), Zoutpansberg (May).
 — *gavis*, Wallengr. Barberton (Jan.), Zoutpansberg (May).
 — *omphale*, Godt. Zoutpansberg (May).
 — *theogone*, Boisd. Pretoria, Zoutpansberg (May).
 — *phleggetonia*, Boisd. Pretoria (Oct.), Pienaars River (March), Zoutpansberg (May).
 — *celimene*, Luc. Pretoria (Nov.).
 — *vesta*, Reiche. Zoutpansberg (May).
Catepsilia florella, Fabr. Pretoria (March, May), Johannesburg (*Cregoe*), Crocodile Poort (Jan.), Zoutpansberg (May), Barberton (*Harrison*).
Belenois zochalia, Boisd. Pretoria (Jan.), Johannesburg (*Cregoe*).
 — *mesentina*, Cram. Pretoria (Feb.), Johannesburg (*Cregoe*), Pienaars River (March), Zoutpansberg (May).
 — *severina*, Cram. Pretoria (Dec.), Johannesburg (*Cregoe*), Barberton (*Harrison*), Zoutpansberg (May).
Synchloë hellica, Linn. Pretoria (Aug., Sept., Dec.), Johannesburg (*Cregoe*), Pienaars River (Oct.), Zoutpansberg (May).
Pinacopteryx charina, Boisd. Barberton (*Harrison*).
Herpencia eriphia, Godt. Pretoria (Feb.), Pienaars River (March).
Eronia ledæ, D. & H. Lydenburg District (*Zutrzenka*).

Recorded elsewhere.

- Terias Desjardinsii*, Boisd. Lydenburg District (*Trimen*, S. A. Butt.).
Pieris pygæa, Boisd. Potchefstroom (*Trimen*, S. A. Butt.).
Teracolus phleggyas, Butl. Marico and Limpopo Rivers, Lydenburg District (*Trimen*, S. A. Butt.).
 — *topha*, Wallengr. Lydenburg District (*Trimen*, S. A. Butt.).
 — *antevippe*, Boisd. " " "
 — *antigone*, Boisd. Lydenburg District, Limpopo River (*Trimen*, S. A. Butt.).
Eronia Buquetii, Boisd. No exact locality (*Trimen*, S. A. Butt.).
Terias floricola, Boisd. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).
 — *æthiopica*, Trim. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).
 — *Butleri*, Trim. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).
Pieris saba, Fabr. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).
 — *gidica*, Godt. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).

The genus *Teracolus*, though the subject of much revision, is still in an unsatisfactory condition. The species which I have followed Mr. Trimén in considering identical with the Abyssinian *T. vesta*, Reiche, is pronounced by Dr. Butler to

be distinct and to represent his *T. mutans* (Ann. & Mag. Nat. Hist. ser. 6, vol. xx. p. 505). In the same way the *T. ione*, Godt., as interpreted by Trimen, is probably *T. imperator*, Butl. However, we must await Miss Sharpe's monograph on the genus, when we may expect to find these species, forms, races, and varieties figured.

PAPILIONINÆ.

- Papilio corinneus*, Bertol. Zoutpansberg (*Kæssner*).
 — *demoleus*, Linn. Pretoria (Sept.).
 — *ophidicephalus*, Oberth. Barberton (Jan.).
 — *constantinus*. Barberton (*Harrison*).
 — *lycaus*, D. & H. Barberton (Jan.); also seen flying at Rustenburg in December.
 — *echerioides*, Trim. Barberton (*Dr. P. Rendall*), Zoutpansberg (*Kæssner*).

Recorded elsewhere.

- Papilio euphranor*, Trim. Lydenburg District (*Trimen*, S. A. Butt.).
 — *leonidas*, Fabr. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).
 — *cenea*, Stoll, form *tibullus*, Kirby. Eureka District (*Dr. P. Rendall*, ident. by Mr. H. Grose-Smith).
 — *erinus*, Gray. Eastern Transvaal (Butler, P. Z. S. 1898).

Hesperiidæ.

- Cyclopides metis*, Linn. Barberton (*Harrison*).
 — *tsita*, Trim. Pretoria (Dec., Jan.), Rustenburg (Dec.).
 — *Willemi*, Wallengr. Pretoria (Feb.).
Hesperia vindex, Cram. Pretoria (Nov.).
 — *dromus*, Plotz. Pretoria (Feb., March), Barberton (Jan.).
 — *mafa*, Trim. Pretoria (Sept., Oct.), Pienaars River (March).
 — *asteroidia*, Trim. Pretoria (Sept.).
 — *dionus*, Hopff. Pretoria (Jan., Feb., Aug.), Zoutpansberg (*Kæssner*).
 — *sataspes*, Trim. Pretoria (Sept.).
Carcharodus elma, Trim. Barberton (Jan.).
Kedestes callicles, Hew. Pretoria (Feb.).
 — *tucusa*, Trim. Rustenburg (Dec.).
Padraona zeno, Trim. Barberton (Jan.).
Gegenes hottentota, Latr. Pretoria (Feb., March, April, May), Barberton (Jan.), Waterberg (*Wilde*), Zoutpansberg (May).
Platylesches amadhu, Mab. Pretoria (Jan., April, Nov.), Pienaars River (March), Barberton (*Dr. P. Rendall*).
Chapra mohopaani, Wallengr. Pretoria (April).
Abantis tettensis, Hopff. Warm Baths, Waterberg (Dec.).
Leucochitonea levubu, Wallengr. Waterberg (*Wilde*), Zoutpansberg (*Kæssner*).
Sarangesa djelalele, Wallengr. Pretoria (Jan., Feb., Dec.), Barberton (Jan.), Zoutpansberg (*Kæssner*).
Sape motozi, Wallengr. Pretoria, Barberton (*Harrison*), Zoutpansberg (*Kæssner*).
 — *kobela*, Trim. Barberton (Jan.).

- Celenorrhinus mokeezi*, Wallengr. Barberton (*Harrison*), Zoutpansberg
(*Kässner*).
Tagiades fesus, Fabr. Barberton (*Harrison*).
Rhopalocampta forestan, Cram. Pretoria (April).
 — *pisistratus*, Fabr. Pretoria (Jan, Feb., April, Nov., Dec.).

Recorded elsewhere.

- Cyclopides malgacha*, Boisd. Potchefstroom (*Trimen*, S. A. Butt.).
 — *agipan*, Trim. Lydenburg District " "
 — *menina*, Trim. Potchefstroom " "
Pyrgus transvaalica, Trim. Potchefstroom "
 — *mohozutza*, Wallengr. Lydenburg District "
Thymelicus lepenula, Wallengr. Potchefstroom "
 — *barbera*, Trim. No special locality "
Pamphila Morantii, Trim. Upper Limpopo "
 — *moritili*, Wallengr. Lydenburg District "
 — *Ayresii*, Trim. "
Abantis venosa, Trim. Barberton "
Caprona canopus, Trim. Potchefstroom "
Pamphila borbonica, Boisd. (*Wallengren*, Insecta Transvaaliensia.)
Steropes monochromus, Mab. (Soc. Ent. de Belg. 1891, p. lxiv.)
Pamphila icteria, Mab. (Soc. Ent. de Belg. 1891, p. clxxx.)
Sape pertusa, Mab. (Soc. Ent. de Belg. 1891, p. lxxviii.)

IX.—*A Revision of the Pierine Butterflies of the Genus Terias from the Old World.* By ARTHUR G. BUTLER, Ph.D., F.L.S., F.Z.S., &c., Senior Assistant - Keeper, Zoological Department, British Museum.

THE genus *Terias* has always been a puzzle to Lepidopterists and probably will never be thoroughly understood until the whole of the species have been reared from the egg throughout the year and in all parts of the world where they exist. At the same time, the careful labelling and dating of collections in recent years and the study which has been devoted to this genus in India and Africa have thrown considerable light upon the relationship of the numerous forms which, even in my "Notes on the Genus *Terias*" (Ann. & Mag. Nat. Hist. ser. 5, vol. xvii. pp. 212-225), I was obliged to regard, for want of evidence to the contrary, as distinct species.

The researches of Capt. E. Y. Watson, C. W. Barker, and G. A. K. Marshall have conclusively proved that many of the supposed species of the genus are either seasonal or varietal: the wet-season forms having the under surface of the wings white or yellow, usually with somewhat feeble markings, or even none at all; the dry-season forms either reddish in colour, sometimes with ill-defined markings, or